

black spines; the margin of the notch is provided with short inconspicuous yellowish setæ. Pleural appendages conspicuous, appearing as curved paddle-like blades that jut across the genital chamber, each one before its tip on the caudal margin with a prominent spinous lobe.

Habitat.—Japan.

Holotype, male, Teshio, July 5, 1916 (T. Isshiki).

Paratopotype, male, July 4, 1916.

MISCELLANEOUS SPECIES OF CHALCID-FLIES FROM AUSTRALIA

(*Hymenoptera, Chalcididæ*)

By A. A. GIRAULT

The following new forms are from Queensland, but have not yet been subjected to final revision.

Eupelmus aesopi, new species.

Like *australiensis*, but ovipositor only one-third abdomen, minute dot on hind knee and just below it. Yellow abdomen margined narrowly from base nearly to apex. Funicle 1 white, 4 twice longer than wide.

Forest, Tumoulin, March 12, 1919.

Neanastatus aeschyli, new species.

Like *maximicarpus*, save minor details and: Femur 3 aeneus save widely at apex, thorax concolorous, lateral ocellus distinctly closer to eye than to cephalic ocellus.

Forest, Ipswich, August, 1919.

Anastatus aeschyli, new species.

Stature of *benthami*, but wings hyaline, scape pale distal half, so tibiæ and femur 2 save upper edge, tibia 2 save a spot dorsad just below knee.

Jungle, Ravenshoe, March 13, 1919.

Ablerus punctatus, new species.

Like *venustulus*, but green, hind legs reddish brown save coxæ, others green save knees, tibial tips widely and the tarsi,

club black, antenna brown, wing-stripe oblique, distinct, characterized by densely punctate dorsum of thorax.

Mountain foot-hills, Nelson, forest, April.

Neorileyella bella, new species.

Like genotype, but distal scutellum very dark, antennæ dark, scape and club white, abdomen 2 and 3 at apex dark, so propodeum save far laterad.

Waugh's Pocket, September, jungle.

Eupelmus muramura, new species.

Slender, abnormal, but as *Eupelmus*. Ovipositor half abdomen, featherly above at about basal half. Purple, middle tibial spur, tarsus 2 and middle joint of 3, white. Fore wing sooty from bend of submarginal nearly to apex, with two longitudinal clear streaks. Head wider than long, eyes round, bulging, antennæ middle of face, scape far above vertex, dilated. Funicle 2 twice longer than wide, longest.

Forest, Tumoulin, March 13, 1919.

Stomatoceras bergeraci, new species.

Characterized by bearing on scutellum a median groove and a short golden pubescence on thorax. Black, punctate. Tegula, legs save hind coxa above, lateral aspect of hind femur sometimes (except widely at each end) and antennæ except funicles 4-8, red. Fore wing marked as in *victoria*.

Brisbane, H. Hacker.

Stomatoceras livii, new species.

Like *carlylei*, but tegula black, fore wings as in *victoria*, funicle 1 barely longer than wide, shorter than pedicel, 2 longest, twice longer than wide, equals 3, 1-3 red, abdomen black.

Darra, H. Hacker.

Eupelmus inkaka, new species.

Like *scudderi*, but abdomen yellow, margined from base to apex above.

Brisbane, Hacker, forest.

Eupelmus dodo, new species.

Like *folsomi*, but abdomen margined down the whole of its side.

With *E. inkaka*.

Eupelmus tennysoni, new species.

Like *dumasi*, but ovipositor nearly as long as abdomen, tibiæ 1 and 3 metallic save distal third, tibia 2 with spot below knee, femur 3 white at apex. Funicle 2 longest, twice longer than wide.

Nelson, jungle, January 8, 1919.

Ablerus nelsoni, new species.

Like *poincarei*, but ovipositor white at apex, fore wings distally wider, 24 lines cilia, fringes relatively shorter, 6-7 lines of coarser under marginal. Scape, pedicel save above at base, funicles 2-4 white. Head so, green below antennæ.

Meringa, window, February.

Signiphora ruskini, new species.

Like *australica*, but legs orange, fore wing infuscated throughout with exception of a small oval near caudal margin opposite end of marginal, the apex narrowly and an indistinct, narrow stripe across from end of venation.

Nelson, forest, March 6, 1919.

Aphelinus voltairei, new species.

Like *Eutrichesomella* genotype, but head and dorsal thorax orange, basal stripe of abdomen represented by a large, wider than long marginal spot a little out from base, the distal stripe is across just before apex; propodeum silvery, of thorax only mesopleurum dusky. Funicle 3 distinct from the solid club. Eyes normal. Club a bit exceeding funicle. Scutellum with four large setæ. Position somewhat uncertain.

Goondi, Johnstone River, in jungle, September.

Eretmocerus australis, new species.

Orange, fore wings slightly infuscated to end of stigmal. Funicles equal, a third wider than long. Hind wing naked, 2

lines of cilia cephalad, 1 caudad. Fore wing 13 lines discal cilia, fringes a bit over one-third width. Pedicel over twice longer than wide, not half the club. An isolated line of cilia caudo-proximad from apex of stigmal. Resembles the other species, but may be native and distinct.

Nelson, window, February.

Apterotrix aspidiotiphagoidea, new species.

Like an *Aspidiotiphagus*. Golden, wings faintly stained across from marginal; axillæ, pronotum save meson not very widely and center of mesopleurum, black. Funicles 1 and 3 equal, half longer than wide, 2 quadrate; clubs twice longer than wide. Seven lines dot-like discal cilia, fringes subequal width. Abdomen above subdusky.

Nelson, January.

Exoclaenoides mutilloides, new species.

Violaceous, wings sooty, following crimson: Distal half of abdomen's body (last two segments, 4 and 5 save cephalic edge of 4), base of abdomen above at meson, a round spot on abdomen 2 dorso-laterad a bit distad of middle; knees, tibiæ, tarsi and apex coxa 3 (save lateral aspect tibia 1), a long, transverse mark across pronotum at cephalic margin, tegulæ. Apical club reddish. Scape yellow save laterad centrally and above toward base. Ten femoral teeth, one large. Like genotype.

Brisbane, Hacker.

Ophelosia lucretii, new species.

Like others, but honey, abdomen purple, legs and propodeal neck, paler, latter very finely shagreened, large. *No ring-joint*, funicles shorter than pedicel, 1 somewhat wider than long, 5 wider yet. *Mandible weak, edentate*. Thorax scaly, scutellum with four bristles, scutum with short pile. Discal cilia dense distad, fringes distinct. Head cross-wrinkled only above antennæ. Club dark.

Jungle, Inkerman, December 9, two females.

Amonodontomerus iucundus, new species.

As *silvae*, but larger, ovipositor one-third abdomen, coxæ,

femora save tips, concolorous, propodeum without median furrow, petiole quadrate; scape, pedicel above green. Abdomen 4 longest, then 2, then 3, 4 a fourth the surface. Funicles 1-2 unequal.

Forest, Herberton, March.

Rhcnopeltella gemma, new species.

Like *acuminata*, but tibiæ concolorous, pedicel twice funicle 3, funicles 2 and 3 abruptly largest, quadrate. Mandibular teeth equal subacute. Postmarginal elongate.

Herberton, forest, March.

Amonodontomerus silvae, new species.

From genotype thus: Club 3-jointed, antennæ below middle of face, head smooth, also abdomen, petiole transverse; scutellum glabrous distad of cross-suture; funicle 1 twice wider than long; club 1 less than that region. Propodeum with median and lateral grooves, latter rather close to meson. Abdomens 2-4 equal, forming four-fifths surface. Postmarginal equal marginal, the rather long stigmal half shorter. Mandible acutely tridentate. Pedicel green above save tip, the funicles are much wider than long.

Forest, Watsonville, March.

Grotiusella eja, new species.

Dark green. Lateral ocellar spots, head below eyes, margins scutellum save meson widely cephalad, margins of post-scutellum save cephalic and a curved line from scutellum up scutum along mesal side axilla, golden. Antennæ, legs concolorous save basal half scape, first four legs save bases of coxæ and tibiæ more or less at base, tarsi 3, tibiæ 3 at apex and narrowly ventrad. A stripe connecting antennal fossæ. Wings hyaline. Mandible 9-dentate. Cheeks yellow. Funicle 1 quadrate, others over twice wider than long. Median carina on propodeum.

Waugh's Pocket, September 19, 1918.

Dinocarsis bella, new species.

Like *subflaviceps*, but funicles 3-6 save base of 3 white,

club brown, rest jet save marking on scape; legs silvery, femora 2 and 3 with narrow black streaks above and below and a dot on knee 2. Mesopleurum and scutum laterad edged with black; tegula, prepectus silvery.

Babinda, jungle, September.

Dinocarsis spica, new species.

Like *bella*, funicles 2-3 also white, apex pedicel more distinctly so, club white, legs, cheeks immaculate.

Jungle, Nelson, October.

Hetreulophus voltairei, new species.

Like genotype save abdomen with purple cross-stripes apex 2-4, each failing laterad; thorax orange with a purple square at mesal base of scutellum; last four antennal joints black, funicle 7 over twice longer than wide, 1 twice 7, subequal pedicel. A second smaller clump hairs on fore wing proximad of the first from which an infuscation proceeds to middle of wing; infuscation forms a fleur-de-lis (hyaline areas—between two hair-clumps), against whole of marginal with an opposite, reciprocal area caudad; apex; against distal half postmarginal with reciprocal opposite, these joined to apical hyaline. Head as in *Eupelmus*.

Little Mulgrave River, jungle, August 25, 1918.

Miscogasteromorpha eja, new species.

Like *ajax*, but abdomen orange, with a solid marginal stripe above from base a little distad of middle (apex of 4) and four cross-stripes, 1 apex of segment 2, others occur apex of next segments, 4 just distad of end of marginal stripe. Coxa 2 pale, others purple basal half.

Meringa, jungle, November.